

KORIN, N., dr.; SKARPA, A., dr.

Traumatic rupture of the duodenum. Med. glasn. 15 no.9/10:421-422
O '61.

1. Kirurski odjel Opce bolnice "Braca dr Sobol" u Rijeci (Sef: doc.
dr A. Medanic)

(DUODENUM wds & inj)

LENKOVIC, M.; SKARPA, A.

Duodenal ulcer perforation in children. Acta chir. Iugosl. 12
no.1:52-56 '65.

1. Opća bolnica "Braca dr. Sobol" u Rijeci, Kirurška klinika
Medicinskog fakulteta (Predstojnik prof. dr. A. Longhino).

VRANIC, M.; SKARPA, D.

The effects of cortisol on carbohydrate metabolism and on Langerhans islets in guinea pigs. Bul sc Youg 9 no.6:160 D '64.

1. Physiological Institute of the Faculty of Medicine, Zagreb.

SKARPA, Ivo, inz.; MEDVEDIC, Predrag.

Improving rheological properties of lubricating fats by
lithium soaps. Nafta Jug 14 no.8:215-216, 1963.

1. Istrazivacki laboratorij tvornice "Iskra", Zagreb.

SKARPA, Ivo, inz.; KERLETA, Mirko

A method of determining adhesiveness of lubricating fats.
Nafta Jug 14 no.5/7:165-168 My-Jl'63.

1. Istrazivacki laboratorij tvornice "Iskra", Zagreb.

SKARPIN, G.; ISAJEWSKII, Y.

"Baking Molten Iron with Oxygen in a Cupola." Tr. from the Russian. n.164
(PRZEGLAD ODLEWNICTWA Vol. 3, no. 5, May 1953 Krakow, Poland)

SO: Monthly List of East European Accessions, LC, Vol. 3, no. 5, May 1954/Uncl.

SKARPISEK, J.

Plans of technical-organizational measures must be fulfilled. p. 881.
STROJIRENSTVI, Prague, Vol. 4, no. 12, Dec. 1954.

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 5, No. 6,
June 1956, Uncl.

SKARPISEK, J.

"For further development of the Czechoslovak machinery industry." p. 721.

STROJIRENSTVI. (MINISTERSTVO TEZKEHO STROJIRENSTVI, MINISTERSTVO PRESNEHO
STROJIRENSTVI A MINISTERSTVO AUTOMOBILOVEHO PRUMYSLU A ZEMEDELSKYCH STROJU.)
Praha, Czechoslovakia, Vol. 5, no. 10, Oct. 1955.

Monthly List of East European Accessions (EEAI), LC, Vol. 8, No. 9, September 1959.
Uncl.

SKARPISEK, J.

Problem of the effective use of materials in the machinery industry. p. 241.
(Strojirenstvi, Vol. 7, No. 4, Apr 1957, Praha, Czechoslovakia)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, No. 8, Aug 1957. Uncl.

SHARPISER, J.

TECHNOLOGY

periodicals: INGENYERNAE STAVNY Vol. 6, no. 11, Nov. 1959

SHARPISER, J. Economical provisional party walls for the main industrial buildings of steam-power stations. p. 58.

Monthly List of East European Accessions (EEAI) LC Vol. 8, no. 5
May 1959, Unclass.

SKARFISEK, Jan, inz.

Problems of efficient use of materials in the machinery industry. Nova technika 2 no.6:161-165 Je '57.

1. Predseda Ceskoslovenske vedecko-technicke spolecnosti pro strojirenstvi.

SKARPISKOVA, A., MUDr.

Preventive care of children in the local health community.
Cesk. zdrav. ll no.4:165-167 '63.

1. Obvodni pediatr, OUNZ Praha 2.
(CHILD WELFARE) (PREVENTIVE MEDICINE)

SKATTE, O. K.
32

PRECISES AND PROPERTIES INDEX

Density and molecular volume in solution.
I. Method of density measurement and the
molecular volume of dissolved carbamide.
O. K. SKATTE, S. G. DEMIDENKO, and A. E. BRODSKI
(Acta Physicochim. U.R.S.S., 1937, 6, 207-305).--A
differential pycnometric method is described which
permits d to be measured to $\pm 1 \times 10^{-4}$. d^{25} has
been determined for KCl and for $\text{CO}(\text{NH}_2)_2$ solutions.

The difference in variation of mol. vol. with concn.
for these two compounds is in accord with theory.
J. W. S.

ASTM 55 A METALLURGICAL LITERATURE CLASSIFICATION

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Fractionation of oxygen isotopes in the distillation of water. A. I. Brodskii, D. K. Skaric and V. A. Meksandrovich. *Acta Physicochim. U. R. S. S.* 7, 403 (1957); in German. See C. I. 32, 1159 and following abstr.

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Isotope comparison of snow and mountain water. A. I. Brodskii, D. K. Sharre, E. Donzova and M. M. Slutskaya. *Izvestiya Fizicheskikh. U. R. S. S. S. 7*, 611 (1947) (in German). — Small cylindrical floats 11 mm. long and 1.5 mm. in diam. were used to det. water d. with an accuracy of 0.3%. Combined with measurements of π , these showed an impoverishment of 1) of 0.2-0.3% and an enrichment of 1-2% in O^{18} in snow water compared to that of the Dnieper River. Caucasus-mountain water showed no difference except as affected by snow melting. Gregg M. Evans

STARK, S. S.																									
PROCESS AND PROPERTIES																									
<p>Density and molar volumes in solutions (S. S. Stark, S. G. Devidenko and A. I. Brodskii <i>J. Phys. Chem.</i> (U. S. S. R.) 9, 152 9(1977). A differential pycnometer was used and measurements were made on dil. KCl solns. up to 0.1 M and on urea solns. up to 1 M. The data for KCl solns. obey strictly the linear equation $\rho = a + b \cdot c$. For urea solns. the empirical relation $\Delta d = d - d_0$ holds.</p> <p>$C_p = 3.00045 + 0.001$ F. H. Rathmann</p>																									
<p>ASB-51A METALLURGICAL LITERATURE CLASSIFICATION</p>																									

1ST AND 2ND COPIES										3RD AND 4TH COPIES									
PROCESSES AND PROPERTIES INDEX																			
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<p>Research investigation of snow and of the water of melting snow. I. I. Kuznetsov, G. E. Kuznetsov, R. I. Kuznetsov, and R. E. Kuznetsov (J. Phys. Chem. Moscow, 1958, 62, 100-102). Measurements of density of snow and of the water of melting snow. The calculation of the density of snow and of the water of melting snow. Snow contains 50-60% D₂O and 40-50% H₂O > the ordinary water. Measurements give different results. The exchange of D₂O between air and water on Pt is recorded. J. J. B.</p>																			
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1ST AND 2ND SHEETS		PROCESSES AND PROPERTIES INDEX	
<p>CR</p> <p>Concentration of the heavy isotope of oxygen and the isotopic analysis of water. O. K. Skarve and A. I. Brodskii. <i>Repts. L. V. Pisarskii's Inst. Phys. Chem., Acad. Sci. Ukrain. S. S. R.</i> 11, 78-86 (in Russian, 87; in English, 97-8) (1938).—See C. A. 33, 3642. B. Z. Kamich</p>		2	
<p>COMMON ELEMENTS</p> <p>COMMON VARIABLES INDEX</p>			
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Concentration of the heavy oxygen isotope by distillation of water and the isotopic analysis of water. A. I. Brodskii and O. K. Skarpe, *Acta Physicochim. U. R. S. S.* 10, 729-732 (1939) in English; cf. preceding abstract description and discussion of the theory of a 25- and 100-cone copper fractionating column are given. Enrichment was attained after ca. 80 hrs. for both H_2O^{18} and H_2O^{17} waters, but the plate efficiency was only ca. half as great for deuterium as for O^{18} (10-70). The enrichment of O^{18} was ca. 100% and of deuterium ca. 500% after 93 hrs. operation at 70°. By electrolyzing the heavy water so obtained, burning the O^{18} - O^{16} mixt. with ordinary hydrogen, and measuring the densities and n_D , n_D and n_D calc. from the data obtained that the difference in n_D for H_2O^{18} and H_2O^{16} is 0.015 and for n_D^{17} H_2O^{18} - D_2O is 0.051. Of the three species, H_2O^{18} is most deformable.

F. H. Rabinovich

SKARRE40112

400

1. POLENO, A. D.; SKARRE, O. A.

2. USSR (400)

"The Swelling Effect of Inhibitors during the Pickling (travleniye) of Metals."
Zhur. Fiz. Khim., 13, No. 9, 1939. Dnepropetrovsk, Academy of Sciences Ukrainian
SSR, Institute of Physical Chemistry Acad. Academician L. V. Piskarskiy.
Received 14 February 1939.

3. Report U-1415, 2 Jan 1952.

SHVABE, O. L.

"The Concentration of the Heavy Isotope of Oxygen with the Distillation of Water: an Isotopic Analysis of the Water;" 13, No. 4, 1939; Khimiko-Tekh. Insti. Lab. of Physical Chem.; Insti. of Physical Chem. imeni L. V. Pizharenvskiy, Acad. of Sci. Ukrainian SSR, Div of the Chem. of Isotopes, Dnepropetrovsk; Recd 1 July 1938.

Report U-1613, 3 Jan. 1952

SHARPE, G. E.

Peresovskaya, F. I., Sharpe, G. E., Koskalenskaya, E. Ia. and Sterina, Ye. Z.-
"The study of the mechanism in the tautomeric change of nitro compounds by the
isotope method," (In the index fourth author: Sterina, Ye Z.), Nauch. zapiski
(Dnepropetr. gos. un-t), Vol. XXXIII. 1968, p. 111-14

SO: C-5240, 17, Dec. 53, (Lotopis 'Zhurnal 'nykh Statey, No. 23, 1949).

SKARRE, O. K.

Skarre, O. K. and Krupnikova, M. O. - "The isotopic composition of mineral waters,"
Nauch. zapiski (Dnepropetr. gos. un-t), Vol XXXIII, 1948, p. 223- 25

SO: U-5240, 17, Dec. 53, (Ietopis 'Zhurnal 'nykh Statey, No. 25, 1948).

S/076/60/034/007/030/042/XX
B004/BC68

26.1610

AUTHORS:

Skarre, O. K., Tereshkevich, M. O., and Shelekhova, T. S.

TITLE:

Study of the Influence of the Nature of the Cation on the Mobility of Oxygen Atoms in the Anion in Aqueous Solutions. I

PERIODICAL:

Zhurnal fizicheskoy khimii, 1960, Vol. 34, No. 7,
pp. 1599 - 1601

TEXT: The authors proceed from the statement that the influence of the cation on the properties of the anion in concentrated solutions has not yet been thoroughly investigated. The aim of this paper was therefore to study the oxygen exchange between water and the nitrates of Li, Na, K, Rb, Cs, and Ag. The weighed sample consisting of nitrate and water was put into an ampoule and placed into the thermostat. The water-salt ratio was 3:1 related to one gram-atom of oxygen. After a certain time, the ampoules were opened, the water driven off, and the intensity of the exchange reaction calculated from the decrease of the O^{18} content in the water. Analysis was performed by means of flotation. Since no oxygen

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Study of the Influence of the Nature of the S/076/60/034/007/030/042/XX
Cation on the Mobility of Oxygen Atoms in B004/B068
the Anion in Aqueous Solutions. I

exchange took place at 140° and 160°C , small quantities of HNO_3 were added as catalyst. The exchange reaction rate decreased in the following order: $\text{HNO}_3 > \text{LiNO}_3 > \text{NaNO}_3 > \text{KNO}_3 > \text{CsNO}_3$. AgNO_3 showed the same activity as LiNO_3 . It is supposed that the exchange takes place through complexes forming from solvent, cation, and anion, with the proton of the acid acting as catalyst. The complexes must be rather stable, since no exchange takes place with CsNO_3 . G. P. Miklukhin and A. I. Brodskiy are mentioned. There are 1 table and 7 references: 5 Soviet, 1 US, and 1 British.

ASSOCIATION: Dnepropetrovskiy gosudarstvennyy universitet
(Dnepropetrovsk State University)

SUBMITTED: October 22, 1958

Card 2/2

GITIS, S.S.; TERESHKEVICH, M.O.; GARUS, L.I.; GLAZ, A.I.; SKARRE, O.K.

Reactions of aromatic nitro compounds. Part 11: Study of
reesterification using the isotope method. Zhur.ob.khim. 31
no.9:2902-2904 S '61. (MIRA 14:9)
(Esterification) (Nitro compounds)

SKARRE, O.K.; TERESHKEVICH, M.O.

Effect of the nature of cation on the mobility of oxygen atoms
in anions in aqueous solutions. Zhur. fiz. khim. 35 no.2:416-
419 F 1961. (MIRA 16:7)

1. Dnepropetrovskiy gosudarstvennyy universitet.
(Nitrates) (Cations) (Oxygen)

SKARRE, O.K.; TERESHKEVICH, M.O.; YUDASINA, A.G.

Mobility of hydrogen atoms in monocarboxylic acids. Zhur. fiz. khim. 35
no.3:558-562 Mr '61. (MIRA 14:3)

1. Dnepropetrovskiy universitet.
(Acids, Fatty) (Hydrogen)

REZNIK, B.Ye.; SKARRE, O.K.; GRECHANOVSKIY, V.F.; DLUGACH, R.Ye.;
Prinimali uchastiye: NEDOSHOPA, G.N.; SEREBRO, V.D.;
OVDIYENKO, A.N.; GUBENKO, R.V.

Phototurbidimetric and radiometric methods for the determination of sulfates in pure iron oxide. Khim. prom. no.5:381-384. My '63. (MIRA 16:8)

1. Dnepropetrovskiy gosudarstvennyy universitet (for Reznik, Skarre, Grechanovskiy, Dlugach).

SKARRE, O.K.; TERESHKEVICH, M.O.; KURATOVA, T.S.

Effect of the nature of cation on the mobility of oxygen atoms
in an anion in aqueous solutions. Part 4. Zhur. fiz. khim. 37
no.5:1132-1134 My '63. (MIRA 17:1)

1. Dnepropetrovskiy gosudarstvennyy universitet.

SKARHE, O.F.; TERESHANVICH, M.O.; KURATOVA, T.S.; LARCHENKO, L.N.

Effect of the nature of cation on the mobility of oxygen
atoms in anion in aqueous solutions. Part 3. Zhur. fiz. khim.
37 no.4:879-881 Ap '63. (MIRA 17:7)

1. Dnepropetrovskiy gosudarstvennyy universitet.

ACCESSION NR: AP4040544

S/0064/64/000/006/0440/0442

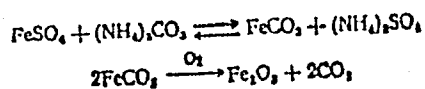
AUTHOR: Grechanovskiy, V. F.; Reznik, B. Ye.; Skarre, O. K.; Dlugach, R. Ye.; Gubenko, R. V.

TITLE: Production of ferric oxide with low iron content

SOURCE: Khimicheskaya promyshlennost', no. 6, 1964, 440-442

TOPIC TAGS: ferric oxide, production, purification, analytical grade ferric oxide, ferrite production, electrical industry, ferric carbonate

ABSTRACT: A procedure was worked out for the production of analytical grade ferric oxide which comprises an improvement on the iron carbonate precipitation and calcining method:



In the improved method the second wash after calcining is eliminated and the amount

Cord 1/2

KURATOVA, T.S.; TERESHKEVICH, M.O.; GOL'TEUZEN, E.E.; POZHIDAYEVA, E.Yu.;
SKARRE, O.K.

Oxygen atomic mobility in certain anions and mixed solvents.
Sodium and potassium bromates. Zhur.fiz.khim. 39 no.10:2365-
2369 O '65. (MIRA 18:12)

1. Dnepropetrovskiy gosudarstvennyy universitet. Submitted
April 14, 1964.

SKARUCH, Zdzislaw

Outline of history of pharmacological therapy of alcoholism.
Polski tygod. lek. 11 no.37:1592-1599 10 Sept 56.

1. (Z Kliniki Psychiatrycznej A.M. w Lublinie; kierownik: prof.
dr. M. Kaczynski) Lublin, Klinika Psychiatr. A.M.
(ALCOHOLISM, therapy,
drug ther., hist. (Pol))

SKARUCH, Zdzislaw; DABSKI, Henryk

Mental disorders in Addison-Biermer disease. Polski tygod. lek.
16 no.22:830-833 29 My '61.

1. Z Kliniki Chorob Psychicznych A.M. w Lublinie; kierownik: prof.
dr med. Mieczyslaw Kaczynski i z I Kliniki Chorob Wewnetrznych A.M.
w Lublinie; kierownik: prof. dr med. Mieczyslaw Kedra.

(ANEMIA, PERNICIOUS compl) (MENTAL DISORDERS etiol)

SKARUCH, Zdzisław

Studies on the prognostic significance of the attitude of patients with early schizophrenia as related to psychotic manifestations. Neurologia etc., polska 12 no.3:397-400 '62.

1. Z Kliniki Chorob Psychiczych AM w Lublinie Kierownik: prof. dr M. Kaczynski.

(SCHIZOPHRENIA)

(BEHAVIOR)

SKARUTSKIY, A. A.

26-10-10/44

AUTHORS: Skarutskiy, A.A., Barsa-Kel'messkiy Reservation;
Trishin, V.P., Village of Kozel'shchina, Poltava oblast , and
Zamorskiy, A.D., Professor (Leningrad)

TITLE: Rare Forms of Solar Halo (Redkiye formy solnechnogo galo)

PERIODICAL: Priroda, 1957, No 10, pp 79-81 (USSR)

ABSTRACT: Two "Priroda" readers, Zarutskiy and Trishin sent in reports
about solar haloes of very unusual shape and size which were
accompanied by several pseudo suns (Figures 1 and 2) and
luminescent bows or stripes, they had observed in 1956. Pro-
fessor Zamorskiy, whom the editors approached for information,
says that such light phenomena or haloes are due to refraction
and reflection of sunrays caused by tiny ice crystals in the
air. Some forms are very unusual and originate from rare
optical phenomena of the atmosphere.
There are 3 figures and 2 references, of which one is Slavic.

AVAILABLE: Library of Congress

Card 1/1

SKARVADA, Ales; TESARIK, Karel

Direct determination of helium in natural gases. Prace Ust naft
19 no.84/91:115-119 '62.

1. Ceskoslovenske naftove doly, Vyzkumny ustav Brno; Ceskoslovenska
akademie ved, Laborator pro analyzu plynu Brno.

STAUD, Miloslav; RAODS, Miloslav; SIR, Emanuel; SKARVADA, Ales

Hydrogenation of Romashkino crude oil. Ropa a uhlie 5 no.73
205-208 JI'63.

1. Vyzkumny ustav Kralovopolske strojirny, zavody chemickych
zarizeni, n.p.o., Brno.

CZECHOSLOVAKIA

UDC 616.26-073.27

SKLARVAN, K.; Institute of Clinical Physiology (Ústav Klinické Fyziologie), Prague, Head (Prednosta) Prof Dr J. SKLADAL.

"Electromyography of the Diaphragm."

Prague, Časopis Lékařů Českých, Vol 105, No 47, 25 Nov 66, pp 1279 - 1284

Abstract [Author's English summary modified]: A method for the investigation of the electrical activity of the main respiratory muscle - the diaphragm - is described. The method is based on electromyography either by direct transthoracic route using needle electrodes or by the intraesophageal route by means of a contact esophageal electrode. Electric activity of the diaphragm during normal respiration and during respiratory movements is discussed. 9 Figures, 27 Western, 1 Russian, 1 Japanese reference. (Manuscript received Jul 66).

1/1

SKARVAN V. S. Poleptani zubu kyselinami u zinkografu Corrosion of dental enamel due to acids in zincographers Pracovni Likarstvi, Prague 1949, 1/2 (12-125)

Among 212 zincographers examined, 5 cases of corrosive changes of enamel of the teeth were found. The damage described was due to the direct action of nitric and hydrochloric acids.

Rejsak - Prague

SO: Medical Microbiology & Hygiene, Section IV, Vol 3, No 7-12

SKARYATIN, A.P.

25-9-17/40

AUTHOR: Skaryatin, A.P. Director of the "Novo-Medvenskiy" State Farm,
Tula Oblast

TITLE: We Are up to It (Eto nam po plechu)

PERIODICAL: Nauka i Zhizn', 1957, # 9, p 35-36 (USSR)

ABSTRACT: The author gives a detailed description of the activities on a state farm and points out that his farm workers are ready to meet the challenge of the Communist Party to catch up with the USA in the per capita production of meat, butter and milk. The workers have decided to raise the production during 1960 as follows: per 100 ha of agricultural premises and plowland the output is expected to be - 80,000 kg milk, 90,000 kg pork, 125,000 eggs. This will be possible through scientific help, utilization of the latest achievements in agriculture and biology, mechanization of obsolete processes by using electric power and modern machinery.

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Card 1/1

SERGEIN, A.M.; BAZHENOVA, T.R.; YEGORISKY, V.I.; KUDACHIN, L.N., SKRIBACHIN,
V.D.

Oil-source and reservoir properties of the Cambrian sediments
of the Yenisey part of the Siberian Platform. Izv. vys. ucheb.
zav.; nef't' i gaz 7 no.9:11-13 '64. (MIRA 17:12)

1. Moskovskiy gosudarstvennyy universitet im. Lomonosova.

TSZYAN TSZU-TSI[Chiang TSu-ch'i], aspirant; SKARYATIN, V. D.

Using aerial photographs to study the jointing of Daghestan
carbonate rocks. Izv. vys. ucheb. zav.; geol. i razv. 5
no.10:53-62 0 '62. (MIRA 16:1)

1. Moskovskiy gosudarstvennyy universitet imeni Lomonosova.

(Daghestan—Joints(Geology))
(Aeronautics in geology)
(Rocks, Carbonate)

SKARYDOVA, O.

Breeding infusoria in cultures and their use in laboratory work. p. 168

Vol. 5, no. 2, Feb. 1955
PRIRODNI VEDY VE SKOLE
Praha, Czechoslovakia

So: Eastern European Accession Vol. 5, No. 4, 1956

ISAKOV, P.P.; SKARYTIN, L.I.; SHCHERBAKOV, V.A.; MAKARENKO, V.I.;
BOL-SHUKHIN, V.S.; PIVNIK, M.M.; CHUDAKOV, V.D.; YAKOVLEV,
G.S.;

[DET-250 diesel-electric tractor; its construction and operation] Dizel'-elektricheskii traktor DET-250; ustroistvo i ekspluatatsiia. Moskva, Mashinostroenie, 1965. 479 p.
(MIRA 18:7)

SKARYUKINA, D. (g.Roslavl'); SHTYNGART, M., korrespondent zhurnala
(g.Roslavl')

Chief engineer is hindering. Izobri.i rats. no.6:30 Ja '59.
(MIRA 12:9)

1. Sekretar' Smolenskogo oblastnogo soveta Vsesoyuznogo
obshchestva izobretateley i ratsionalizatorov (for Skaryukina).
(Roslavl--Cordago)

SKARZHEPA, Ye.A.; KOVALEVSKAYA, A.I., red.; ZARSHCHIKOVA, L.N.,
tekhn. red.

[Tables for calculating the density, acidity, and amount of
carbonic acid in nonalcoholic beverages] Tablitsy dlia vy-
chisleniia plotnosti kislotnosti i soderzhaniiia uglekisloty
v bezalkogol'nykh napitkakh. Moskva, Pishchepromizdat,
1962. 34 p.

(Soft drinks)

(Carbonic acid)

(MIRA 15:9)

DUBINSKIY, L.M.; ZAMANSKIY, S.M.; LOPATA, A.Ya.; MAN'KO, N.S.; REZNIK, N.D.; SKARZIEVSKIY, N.A.; TERESHCHENKO, A.I.; KOSTENKO, G.F., red.; TARASINKEVICH, P.F., red.; KAPLINSKIY, L.A., red.; SOROKA, N.S., red.

[The multiple-spindle 1261M and 1262M automatic lathes and 1261P, and 1262P semiautomatic lathes; handbook on adjustment and servicing] Mnogospindel'nye tokarnye avtomaty 1261M, 1262M i poluavtomaty 1261P, 1262P; rukovodstvo po naladke i obsluzhivaniyu. Izd. 2. Pod red. G.F. Kostenko, P.F. Tarasinkevicha i L.A. Kaplinskogo. Moskva, Mashgiz, 1960. 170 p. (MIRA 15:11)
(Lathes--Maintenance and repair)

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[Geology of Krivoy Rog iron-ore deposits] Geologia Krivorozhskikh zhelezorudnykh mestorozhdenii. Kiev, Izd-vo Akad. nauk USSR. Vol.1. [General problems in the geology of the Krivoy Rog Basin. Geology and iron ores of the deposits of the "Ingulets," Rakhmanovo, and Il'ich Mines] Obshchie voprosy geologii Krivbassa. Geologicheskoe stroenie i zheleznye rudy mestorozhdenii rudnikov "Ingulets," Rakhmanovskogo i im. Il'icha. 1962. 479 p. (Krivoy Rog Basin--Mining geology) (MIRA 16:3) (Krivoy Rog Basin--Iron ores)

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S/G56/60/038/006/031/049/XJ
B006/B070

24.2500
AUTHORS:

Mur. V. D., Skarzhinskiy, V. D.

TITLE:

Application of the Dispersion Method for the Study of the
Simplest Green Functions in Quantum Electrodynamics γ

PERIODICAL:

Zhurnal eksperimental'noy i teoreticheskoy fiziki, 1960,
Vol. 38, No. 6, pp. 1817-1823

TEXT: A new technique for treating problems in quantum-field theory has been lately developed, which is based on the dispersion relations for different Green functions (or matrix elements) of the interacting fields. In this method, an infinite system of catenary integral equations appears which gives the relationship between all matrix elements on the energy surface. Boundary conditions must be known for the solution of this system of equations. The dispersion theory has already led to interesting results in quantum electrodynamics. A reasonable boundary condition is that which corresponds to perturbation theory. V. Ya. Faynberg (Ref. 1) has studied the behavior of the photon propagation function $D_{\mu\nu}(k)$ and of the current

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Application of the Dispersion Method for the Study of the Simplest Green Functions in Quantum Electrodynamics S/056/60/038/006/031/029/XX
B006/B070

matrix element $\langle 0 | j_{\mu}(0) | p, p' \rangle$ as a function of the square of the photon momentum $k^2 = (p+p')^2$ with $p^2 = p'^2 = -m^2$. In this connection it appears of interest to study analogous quantities as functions of the square of the electron momentum p^2 ; this was the object of the present paper. (An analogous study in the field of mesodynamics was made by V. V. Malakhov Ye. P. Rashevskaya and V. Ya. Faynberg; see p. 1803 of this issue). The authors study the electron propagation function $G(\hat{p})$ in spectral representation, as well as the current matrix element $\langle 0 | j_{\mu}(0) | p, k \rangle$

as a function of $p^2 = (p+k)^2$. It is shown that in two-particle approximation (i.e., not more than two particles are in the intermediate state), the analytical properties of the matrix element investigated (with respect to p^2) lead to a Hilbert boundary problem which is solved subsequently. Explicit expressions for the electron spectral propagation functions are derived in two-particle approximation, and the asymptotic behavior of $G(\hat{p})$ and $\Gamma_{\mu}(p, p'; k)$ for $-p^2 \rightarrow \infty$, $p'^2 = -m^2$, and $k^2 = 0$ is studied.

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Application of the Dispersion Method for the
Study of the Simplest Green Functions in
Quantum Electrodynamics

S/074/60/038/006/031/040/XX
EC06/E070

No spurious poles appear in $G(p)$ in two-particle approximation, on account
of the vanishing of $\Gamma_{\mu}(p, p')$ for $-p^2 \rightarrow \infty$ even though the renormalization
constant Z_3 becomes infinity. There are 7 references: 4 Soviet, 1 US, and
2 Italian.

ASSOCIATION: Fizicheskii Institut im. P. N. Lebedeva Akademii nauk SSSR
(Institute of Physics named P. N. Lebedev of the Academy of
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SUBMITTED: January 9, 1960

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Arbitrary gauging of the electromagnetic potentials in the dispersion relation method. Zhur. eksp. i teor. fiz. 40 no.4:1076-1079

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POLAND

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Warsaw-Krakow, Przegląd Lekarski, Vol 11, Ser II, No 7, 1959, pp 207-210

Abstract: [Authors' English summary modified] Authors analyzed 100 fatal cases of babies admitted during 1955-1959 with diarrhoea. Largest percentage occurred at age of 1-2 months, with 90% of them bottle fed, and 70% from working or rural families. Majority were under full care of non-working mothers, mostly young or with many children. Origin of diarrhoea could be traced (Salmonella or Shigella) in only 50% of the cases. The authors interpret these data as improper infant feeding due to ignorance of mothers, and call for a program of education on the subject in the higher classes of primary and vocational schools. One Polish and one English references.

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Abs Jour: Ref Zhur-Khimiya No. 7, 1957, 21886

Author : Skarzynski, F. and Wisniewski, F.

Inst : None

Title : Exercises in general chemistry. For students of medical and stomatological schools, 2nd edition.

Orig Pub: Panstw. Zaklad Wydawn. Lekars, 1955 339 p., 21z1.
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(NUCLEIC ACIDS, metabolism,

ribo, in pancreas, iontophoresis of nucleotides)

(NUCLEOTIDES, determination,

iontophoresis in pancreatic ribonucleic acid)

(PANCREAS, metabolism,

ribonucleic acid, iontophoresis of nucleotides in)

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1. Przewodniczący Państwowej Rady Górnictwa (for Krupinski).
2. Dyrektor Instytutu Naftowego, Krakow (for Wojnar).
3. Minister Górnictwa i Energetyki (for Mitrega).
4. Dyrektor Wydawnictwa Górniczo-Hutniczego, Katowice (for Kubiczek).
5. Naczelny Dyrektor Zjednoczenia Przemysłu Naftowego (for Cwierz).
6. Członek Komitetu do Spraw Techniki, Dyrektor Zjednoczenia Przemysłu Maszyn Górniczych (for Swierniak).
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Experiments carried out by the Warsaw Polytechnic Institute for Road and Airfield Technique, and extending over several years, resulted in a satisfactory solution of the problem of a bituminous binding agent for covering moist aggregate. The experiments revealed that excellent results can be obtained by using as a binding agent, with aggregate however moist, gasoline-diluted tar containing from 1 to 2% hydrated lime. The percentage of the hydrated lime additive should be fixed in each individual case, and depends on both the moisture content in the aggregate and the temperature of the binding agent.

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